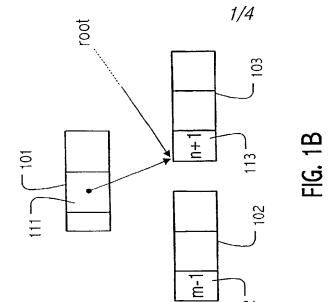
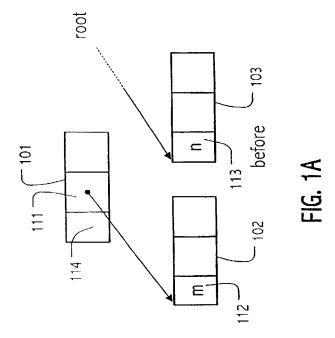
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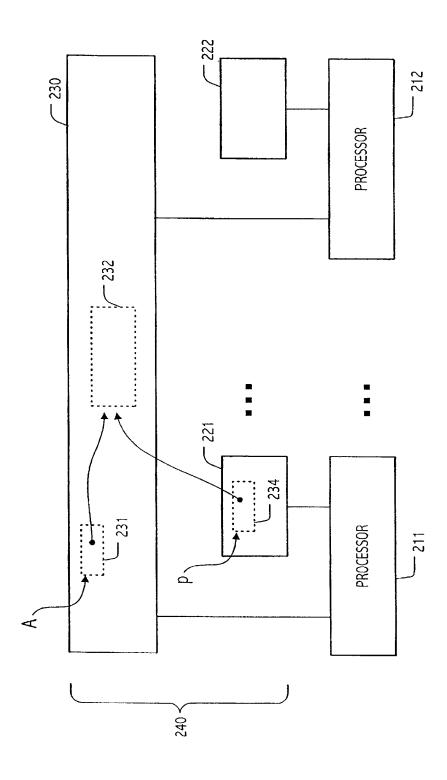




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<pre>class SNode { 31 class SNode *L, *R; valtype V; long rc; 32 SNode() : L(Null), R(Null), rc(1) {}; };</pre>	class Snark { 33 SNode *Dummy, *LeftHat, *RightHat; 34 Snark() : Dummy(Null), LeftHat(Null), RightHat(Null) { 35 LFRCStore(&Dummy→L, Null); 36 LFRCStore(&Dummy→E, Null); 37 LFRCStore(&LeftHat, Dummy); 38 LFRCStore(&LeftHat, Dummy); 39 LFRCStore(&RightHat, Dummy); }; 40 Snark() { 41 while(popLeft()!=EMPTYval); 42 LFRCStore(&LeftHat, Null); 43 LFRCStore(&RightHat, Null); 44 LFRCStore(&RightHat, Null); 45 LFRCStore(&RightHat, Null); 46 LFRCStore(&RightHat, Null); 47 LFRCStore(&RightHat, Null);	45 valtype pushRight(valtype v); 46 valtype pushLeft(valtype v); 47 valtype popRight(); 48 valtype popLeft(); };	
class SNode { 1 class SNode *L, *R; valtype V; 2 SNode() {}; };	class Snark { 3	<pre>10 valtype pushRight(valtype v); 11 valtype pushLeft(valtype v); 12 valtype popRight(); 13 valtype popLeft(); };</pre>	

FIG. 4A

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valtype Snark::pushRight(valtype v) { 49 SNode *nd = new SNode; 50 SNode *rh = Null, *rhR = Null, *lh = Null; 51 if (nd == Null) { 52 LFRCDestroy(rhR, nd, rh, lh);	return FULLval;	LFRCStore(&nd \rightarrow R, Dummy); nd \rightarrow V = v;	while (true) {	LFRCLoad(&RightHat, &rh);	$LF \text{LCLoad}(\text{\&rn} \rightarrow \text{K}, \text{\&rn} \text{K});$ $if (\text{rh} R == \text{Null}) $	LFRCStore(&nd→L, Dummy);	LFRCLoad(&LeftHat, &lh);	if (LFRCDCAS(&RightHat, &LeftHat,	rh, lh, nd, nd)) { LFRCDestrov(rhR. nd. rh. lh):	return OKval;	<pre>} else { LFRCStore(&nd→L, rh); if (LFRCDCAS(&RightHat, &rh→R,</pre>	
val 49 50 51 51	53	54 55	56	57	20	90	61	62	63	64	65 66 67 68	
valtype Snark::pushRight(valtype v) { 14 SNode *nd = new SNode; 15 SNode *rh, *rhR, *lh; 16 if(nd == Null)	return FULLval;		while (true) {	rh = RightHat;	$\lim_{t \to \infty} f(t) = \lim_{t \to \infty} f(t) $ if $f(t) = \lim_{t \to \infty} f(t) $	$nd \rightarrow L = Dummy;$	lh = LeftHat;	if (DCAS(&RightHat, &LeftHat, rh, lh, nd, nd))		return OKval;	<pre>} else { nd→L = rh; if (DCAS(&RightHat, &rh→R, rh, rhR, nd, nd)) return OKval; } }</pre>	
valt 14 15 16	17	18	20	21	23	24	22	26		27	29 30 30	